Edgewood Area - Aberdeen Proving Ground, Maryland 21010-5424
U.S. Army Soldier and Biological Chemical Command

Radiac Set AN/PDR-77

Description: The AN/PDR-77 detects and measures alpha and x-ray radiation. It also detects and measures beta and gamma radiation. The system incorporates commercially available measurement electronics, an alpha probe, beta gamma probe, and x-ray probe. The AN/PDR-77 has a digital LCD Display, is auto ranging, and has settable audio and/or visual alarm thresholds. It is the primary radiac device to support the storage and movement of nuclear weapons, respond to nuclear accidents, and maintain Army equipment containing radioactive materials. The AN/PDR-77 has replaced the AN/PDR-56F and AN/PDR-60, which utilized 30-year-old technology that was difficult and costly to support. Neither of the two systems was sensitive enough to accomplish the Army's alpha detection mission.

Mission: Detect and measure nuclear radiation from nuclear weapons accidents and other sources.

User: U.S. Army.

Capabilities:

- Measures alpha, beta, gamma, and low-energy X-ray radiation
- Measures environmental levels of radiation
- Measures count rate from 1 cpm to 999,000 cpm

Improvements over AN/PDR-56F:

- Stable calibration, highly reliable
- Can measure at environmental levels
- Better accuracy
- Automatic range changing and probe identification

For additional information, please contact Program Director-Detection, ATTN: AMSSB-PM-RNN-D, Aberdeen Proving Ground, MD 21010-5424. The Program Director can also be contacted by E-mail (pd.detection@sbccom.apgea.army.mil), by telephone at (410) 436-3526 or DSN 584-3526, or by fax to (410) 436-8929.

Rev. 10-30-01